

JC17 Rec'd PCT/PTO 19 JUL 2005

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A binder for a packaging laminate, which binder comprises a polyolefin grafted with an unsaturated alkoxy silane, ~~characterised in that~~ wherein said grafted polyolefin is blended with a non-grafted polyolefin, in said binder.

2. (Currently Amended) A binder according to claim 1, ~~characterised in that~~ wherein said grafted polyolefin and said non-grafted polyolefin are polyolefins of the same type, preferably polyethylene type polyolefins.

3. (Currently Amended) A binder according to claim 1 ~~or 2~~, ~~characterised in that~~ wherein it comprises 30 – 70 %, ~~preferably 40 – 60 % and even more preferred 45 – 55 %~~ by weight of the grafted polyolefin.

4. (Currently Amended) A binder according to ~~any one of the preceding claims~~, ~~characterised in that~~ claim 1, wherein said binder is constituted by a dry blend of said grafted polyolefin and said non-grafted polyolefin.

5. (Currently Amended) A binder according to ~~any one of the preceding claims~~, ~~characterised in that~~ claim 1, wherein said binder is constituted by a compound blend of said grafted polyolefin and said non-grafted polyolefin.

6. (Currently Amended) A packaging laminate ~~(10, 30, 40, 50)~~ comprising a film ~~(11a)~~ covered with silicone oxide ~~(13a)~~, ~~characterised in that it comprises~~ and a binding layer

(18a) of a binder according to ~~any one of claims 1-5~~ claim 1, which binder is arranged to bond the silicon oxide to an adjacent layer, in the laminate.

7. (Currently Amended) A packaging laminate according to claim 6, ~~characterised in that wherein~~ said binder is present in the binding layer (18a) at 2-35 g/m<sup>2</sup>, ~~preferably 5-30 g/m<sup>2</sup> and even more preferred 10-25 g/m<sup>2</sup>~~, calculated on dry matter.

8. (Currently Amended) A packaging laminate according to ~~any one of claims 6 and 7~~ claim 6, ~~characterised in that wherein~~ said binding layer (18a) is co-extruded together with a polyolefin layer (22) that is free from said grafted polyolefin, the binding layer (18a) being disposed in contact with the silicon oxide (13a).

9. (Currently Amended) A packaging laminate according to ~~any one of claims 6-8~~, ~~characterised in that~~ claim 6, wherein it comprises a paper or paperboard bulk layer (15), a first outermost layer (16) of a heat-sealable polyolefin and a second outermost layer (17a) of a heat-sealable polyolefin on the opposite side of the laminate, which second outermost layer (17a) comprises a metallocene polyethylene material.

10. (Currently Amended) A packaging laminate according to claim 9, ~~characterised in that wherein~~ said metallocene polyethylene material is a metallocene low density polyethylene material, preferably a metallocene linear low density polyethylene material.

11. (Currently Amended) A packaging laminate according to ~~any one of claims 9-10~~, ~~characterised in that~~ claim 9, wherein the basis weight of the second outermost layer (17a) is from 5 to 30 g/m<sup>2</sup>, ~~preferably from 8 to 25 g/m<sup>2</sup>, more preferably from 10 to 20 g/m<sup>2</sup>~~, dry calculated.

12. (Currently Amended) A packaging laminate according to ~~any one of claims 9-11, characterised in that~~ claim 9, wherein a third layer (17b) of a heat-sealable polyolefin, arranged in direct contact with the second layer (17a) of a heat-sealable polyolefin and preferably co-extruded together with it.

13. (Currently Amended) A packaging laminate according to ~~any one of claims 6-12, characterised in that~~ claim 6, wherein the SiOx gas barrier layer (13a) is PECVD deposited, wherein  $x=1.7-2.0$ , and has a thickness of 50-500 Å, ~~preferably 80-300 Å.~~

14. (Currently Amended) A packaging laminate according to ~~any one of claims 9-13, characterised in that~~ claim 13, wherein the SiOx gas barrier layer (13a), on the film (11a), faces the paper or paperboard bulk layer (15) and is positioned between the paper or paperboard bulk layer and the second outermost layer (17a) of a heat-sealable polyolefin.

15. (Currently Amended) A packaging laminate according to claim 14, characterised ~~in that~~ wherein the SiOx gas barrier layer (13a) is directly bonded to the paper or paperboard bulk layer (15), by said binding layer (18a).

16. (Currently Amended) A packaging laminate according to ~~any one of claims 9-13, characterised in that~~ claim 13, wherein the SiOx gas barrier layer (13a), on the film (11a), faces away from the paper or paperboard bulk layer (15) and is positioned between the paper or paperboard bulk layer and the second outermost layer (17a) of a heat-sealable polyolefin.

17. (Currently Amended) A packaging laminate according to claim 16, characterised ~~in that~~ wherein the SiOx gas barrier layer (13a) is directly bonded to the second outermost

layer (17a) of a heat-sealable polyolefin, by said binding layer (18a).

18. (Currently Amended) A packaging laminate according to ~~any one of claims 9-17, characterised in that~~ claim 13, wherein it comprises a second gas barrier layer of SiOx (13b), coated onto a polymer carrier layer (11b), the first and second gas barrier layers of SiOx being arranged on opposite sides of the paper or paperboard bulk layer (15).

19. (Currently Amended) A packaging laminate according to claim 18 ~~and any one of claims 9-15, characterised in that~~ , wherein the SiOx gas barrier layers (13a, 13b) are positioned in the laminate such that they are facing towards each other.

20. (Currently Amended) A packaging container (60) manufactured from a packaging laminate (10, 30, 40, 50) according to ~~any one of claims 6-19~~ claim 6.

21. (New) A binder according to claim 1 wherein it comprises 40 – 60 % by weight of the grafted polyolefin.

22. (New) A binder according to claim 1 wherein it comprises 45 – 55 % by weight of the grafted polyolefin.

23. (New) A packaging laminate according to claim 6, wherein said binder is present in the binding layer at 5-30 g/m<sup>2</sup> calculated on dry matter.

24. (New) A packaging laminate according to claim 6, wherein said binder is present in the binding layer at 10-25 g/m<sup>2</sup> calculated on dry matter.

25. (New) A packaging laminate according to claim 9, wherein the basis weight of the second outermost layer is from 8 to 25 g/m<sup>2</sup> dry calculated.

26. (New) A packaging laminate according to claim 9, wherein the basis weight of the second outermost layer is from 10 to 20 g/m<sup>2</sup> dry calculated.

27. (New) A packaging laminate according to claim 6, wherein the SiO<sub>x</sub> gas barrier layer is PECVD deposited, wherein  $x=1.7-2.0$ , and has a thickness of 80-300 Å.